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(71) Applicant (for all designated States except US): **THE GOVERNMENT OF THE UNITED STATES OF AMERICA** as represented by **THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES** [US/US]; National Institutes of Health, Office of Technology Transfer, Suite 325, 6011 Executive Boulevard, Rockville, MD 20852-3804 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OLDFIELD, Edward, H.** [US/US]; P.O. Box 309, Philomont, VA 22131 (US). **LONER, Russell, R.** [US/US]; 10611 Mantz Road, Silver Spring, MD 20903 (US). **GARMESTANI, Kayhan** [US/US]; 11208 Hurdle Hill Drive, Potomac, MD 20854 (US). **BRECHBIEL, Martin, W.** [US/US]; 3404 Monarch Lane, Annandale, VA 22003-1155 (US).

(74) Agent: **NOONAN, William, D.**; Klarquist Sparkman, LLP, One World Trade Center, Suite 1600, 121 SW Salmon Street, Portland, OR 97204 (US).

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(54) Title: METHOD FOR CONVECTION ENHANCED DELIVERY OF THERAPEUTIC AGENTS

(57) Abstract: A method for monitoring and controlling convection enhanced delivery of a therapeutic agent to a target tissue is disclosed. A tracer that is detectable, for example, by magnetic resonance imaging (MRI) and/or by X-ray computed tomography (CT) is co-infused with the therapeutic agent and used to monitor the distribution of the therapeutic agent as it moves through the target tissue. The images obtained during delivery are used to confirm delivery of the therapeutic agent to the target tissue and to avoid exposure of tissue outside of the targeted area to the therapeutic agent. In addition, the signal intensity of the images may be used to confirm that the therapeutic agent has been delivered to the target tissue at a desired concentration.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/055

US CL : 424/9.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/9.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST; Dialog

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LONSER, R.R. et al. Direct convective delivery of macromolecules to the spinal cord. J. Neurosurg. October, 1998. Vol. 89, pages 616-622, see entire document.	1-36

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T"
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Karen Cochrane Carlson, Ph.D.

Telephone No. 703-308-1235

Kella Carlson